



PIONEER

Pioneer Energy Services

DUAL COMP POROSITY LOG

Company **CONCORDE RESOURCES CORP**
Well **MCDANIEL NO. 1-14**
Field **WILDCAT**
County **LOGAN** State **KANSAS**

Location: API #: 15-109-21530-00-00

Other Services

SEC 14 TWP 15S RGE 34W
177' FSL & 754' FWL

DIL
MEL

Permanent Datum **GROUND LEVEL** Elevation **3007'**
Log Measured From **KELLY BUSHING**
Drilling Measured From **KELLY BUSHING**

Elevation
K.B. 3017'
D.F. N/A
G.L. 3007'

Company **CONCORDE RESOURCES CORP**
Well **MCDANIEL NO. 1-14**
Field **WILDCAT**
County **LOGAN**
State **KANSAS**

Date **1/12/2018**

Run Number **ONE**

Type Log **CNL/CDL**

Depth Driller **4740'**

Depth Logger **4738'**

Bottom Logged Interval **4709'**

Top Logged Interval **3600'**

Type Fluid In Hole **CHEMICAL**

Salinity, PPM CL **4000**

Density **9.5**

Level **FULL**

Max. Rec. Temp. F **123 DEG/F**

Operating Rig Time **2 HOURS**

Equipment -- Location **108 HAYS**

Recorded By **J. HENRICKSON**

Witnessed By **KEVIN HOWARD**

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
ONE	12.25"	0	307'	8.625"	23#	0	307'
TWO	7.875"	307'	TD				

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

PENCE KANSAS
NORTH ON 320 ROAD TO DAKOTA ROAD
100 FOOT NORTH, EAST INTO

Log Measured From: **KELLY BUSHING** 10 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: **J. HENRICKSON**
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: **KEVIN HOWARD**
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 123	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV -110	degF 21	Off	ft 4738

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	37.48			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	36.73						
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (168-986)	8.50	4.00	250.00
MCAL MI MN	19.83 19.83 19.83			ML-PSI STKBL ML (PSI-02) Stackable Microlog Tools	7.58	4.00	65.00
RLL3 RLL3F	15.80 15.79						
CILD	8.00			DIL-M&W (PSI 978)	18.50	3.50	220.00

CILM

4.70

SP

0.20

Dataset: concorde_mcdaniel_1_14.db: field/well/stackml/pass3.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

**PIONEER**

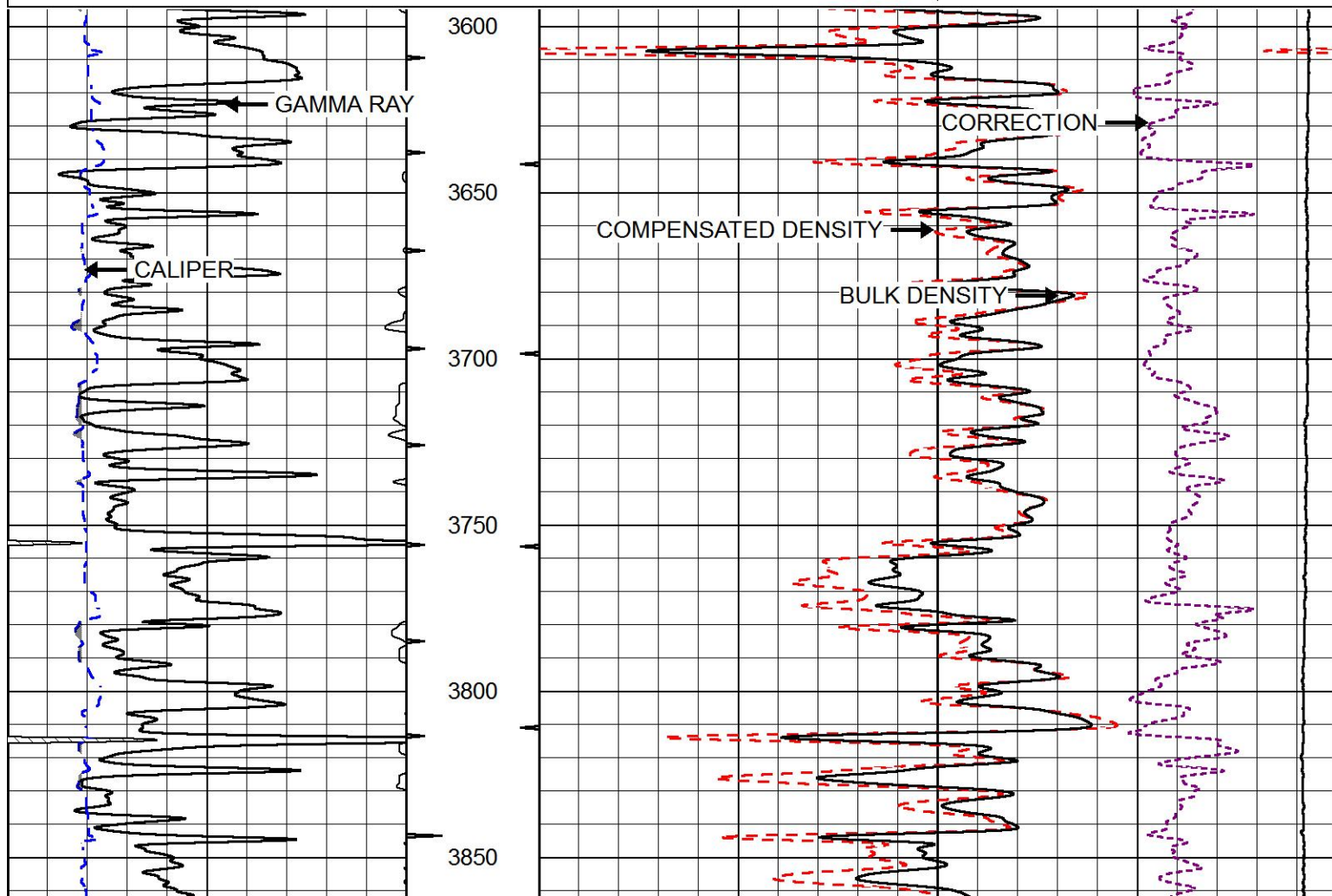
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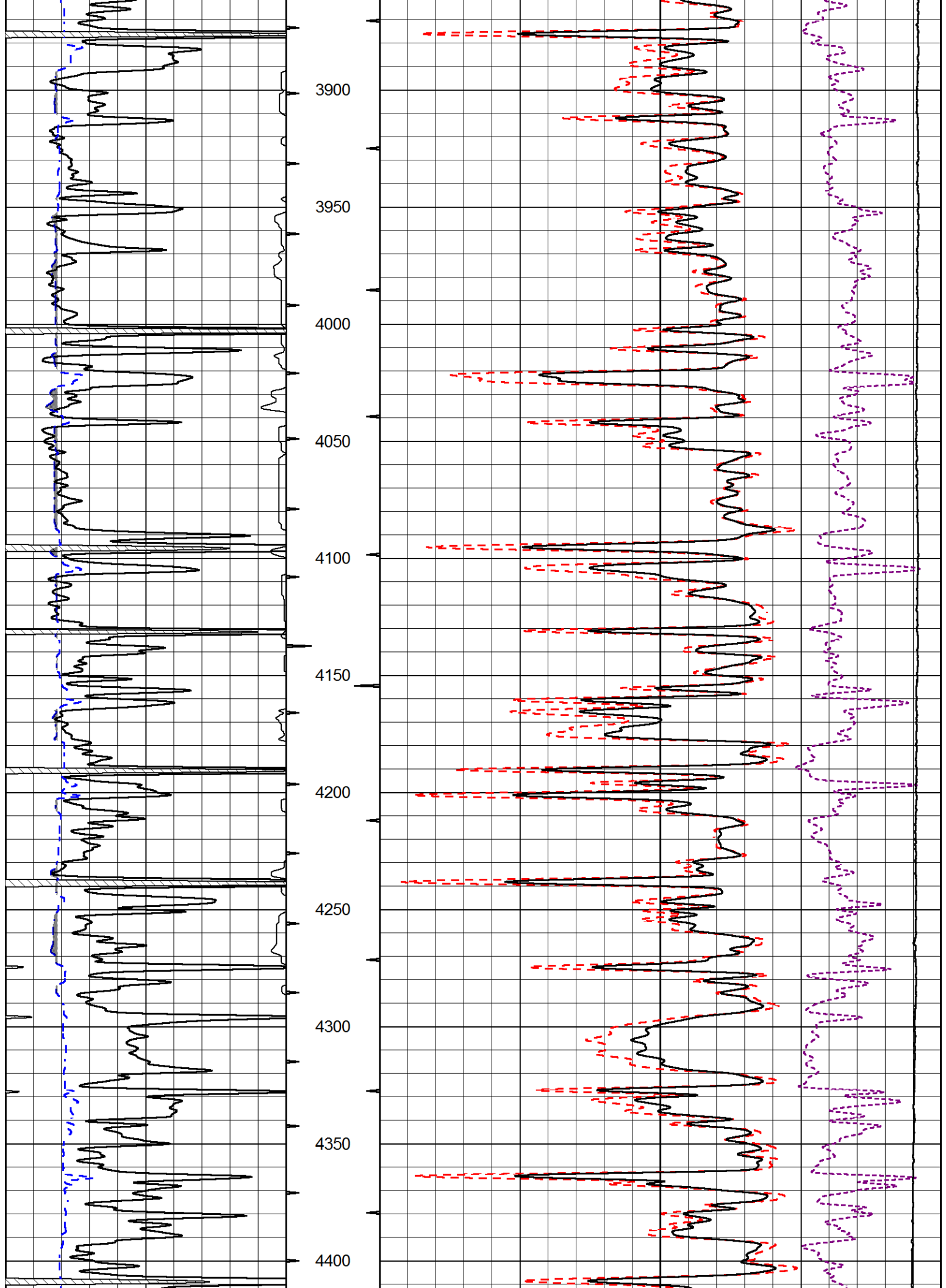
MAIN PASS

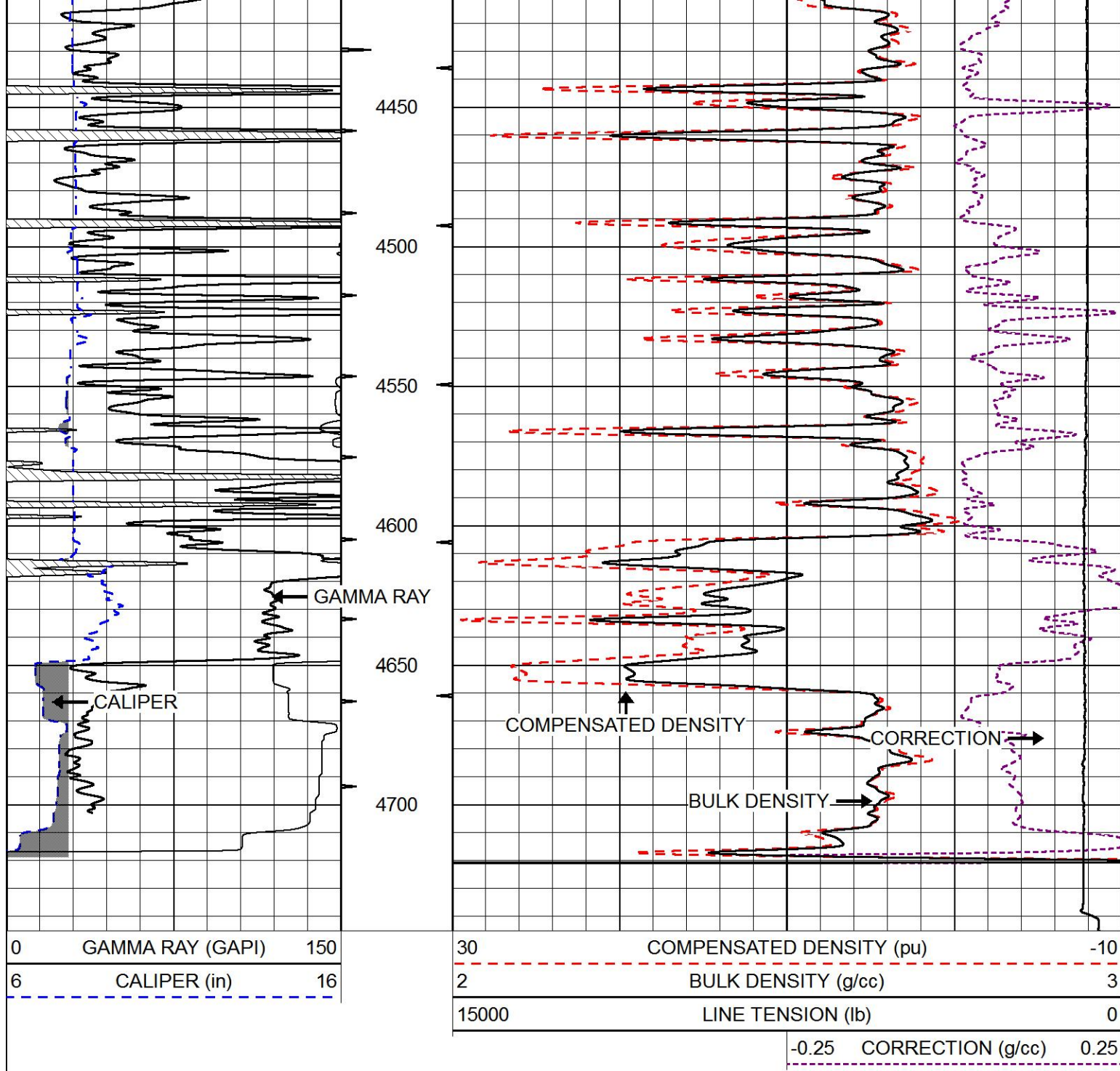
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Dataset Pathname stackml/pass3.1
Presentation Format cdl
Dataset Creation Fri Jan 12 19:00:12 2018
Charted by Depth in Feet scaled 1:600

0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16

30	COMPENSATED DENSITY (pu)	-10
2	BULK DENSITY (g/cc)	3
15000	LINE TENSION (lb)	0
-0.25	CORRECTION (g/cc)	0.25









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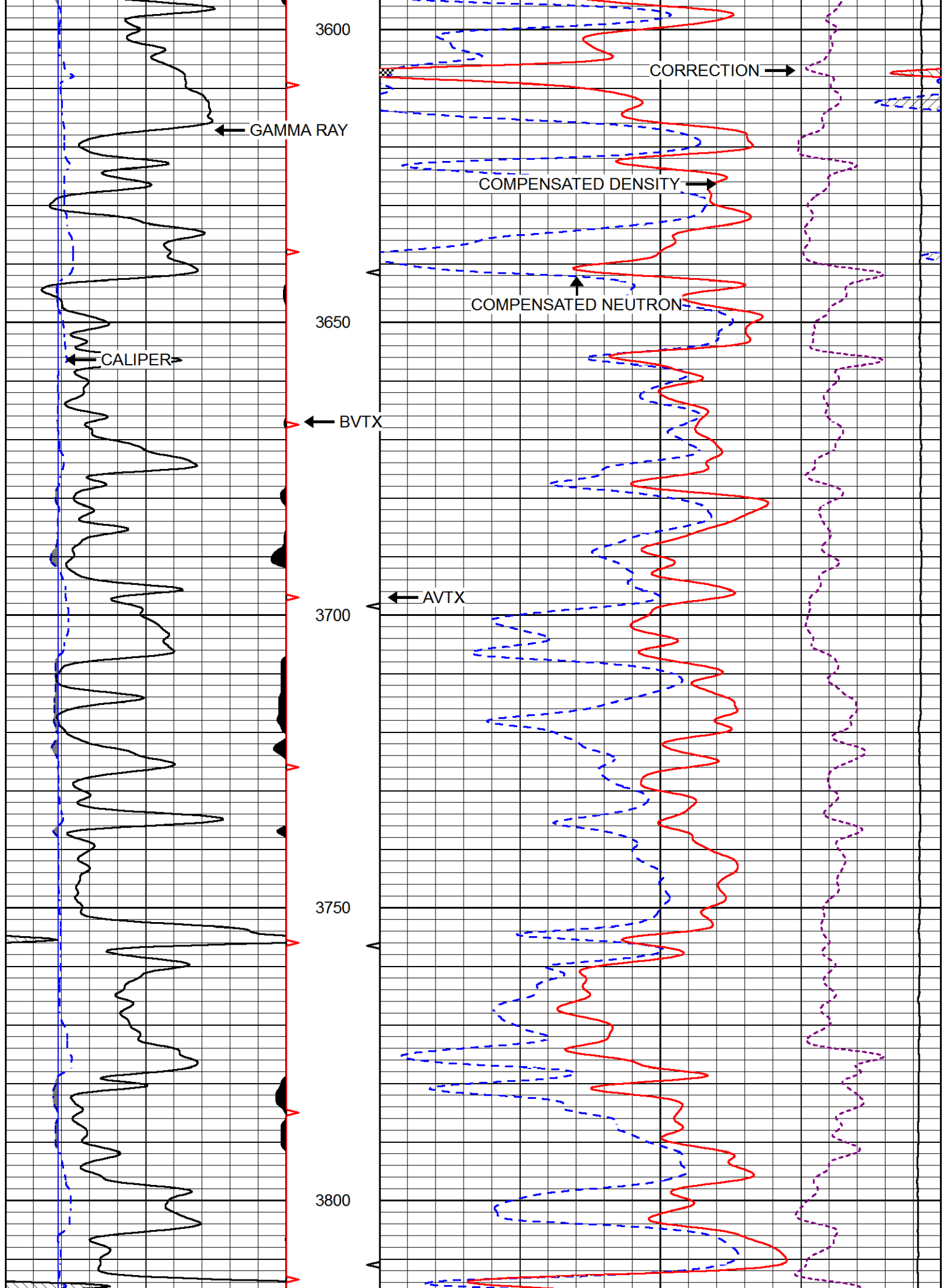
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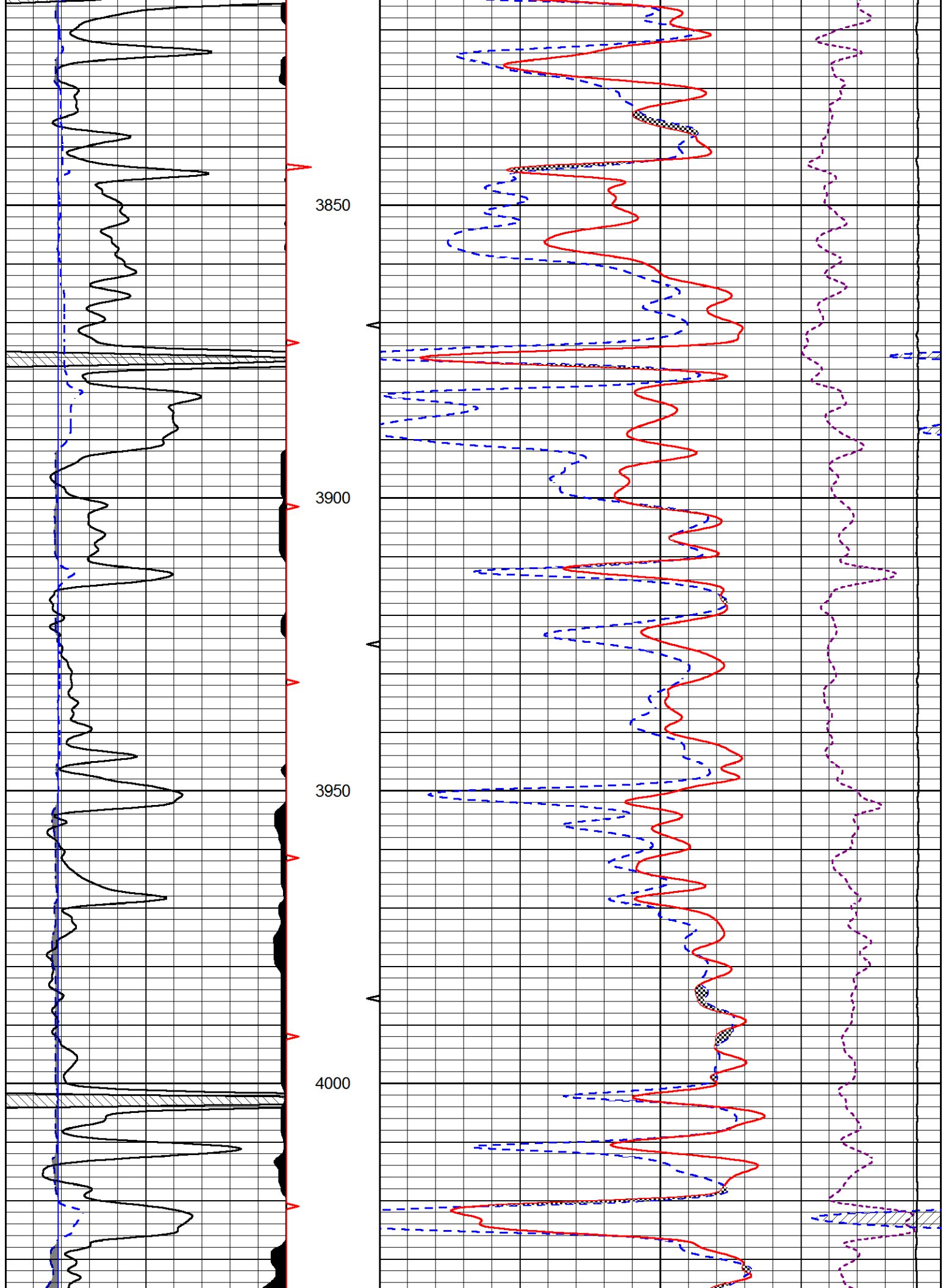
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Presentation Format		cndlspec	
Dataset Creation		Fri Jan 12 19:00:12 2018	
Charted by		Depth in Feet scaled 1:240	

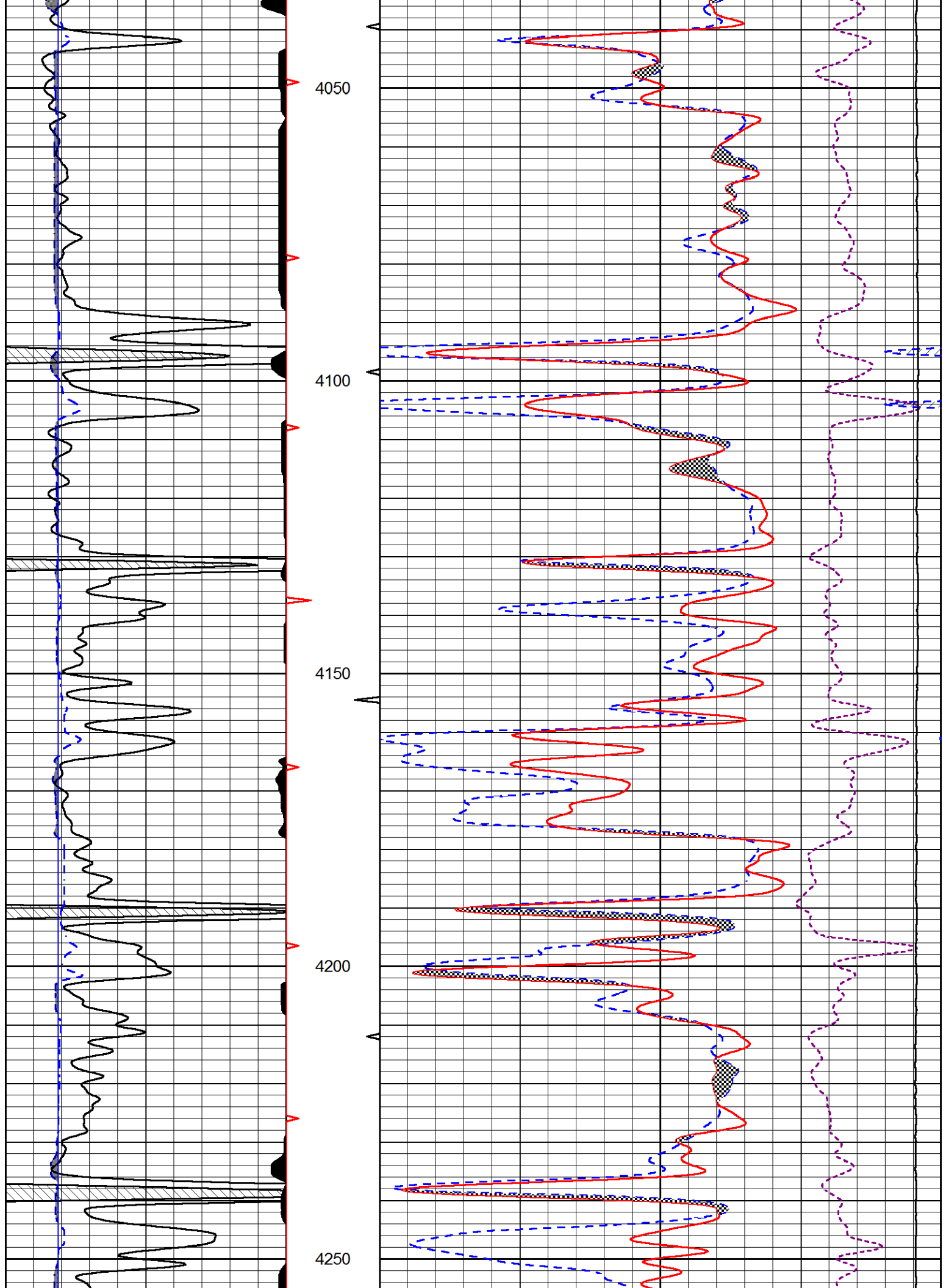
0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

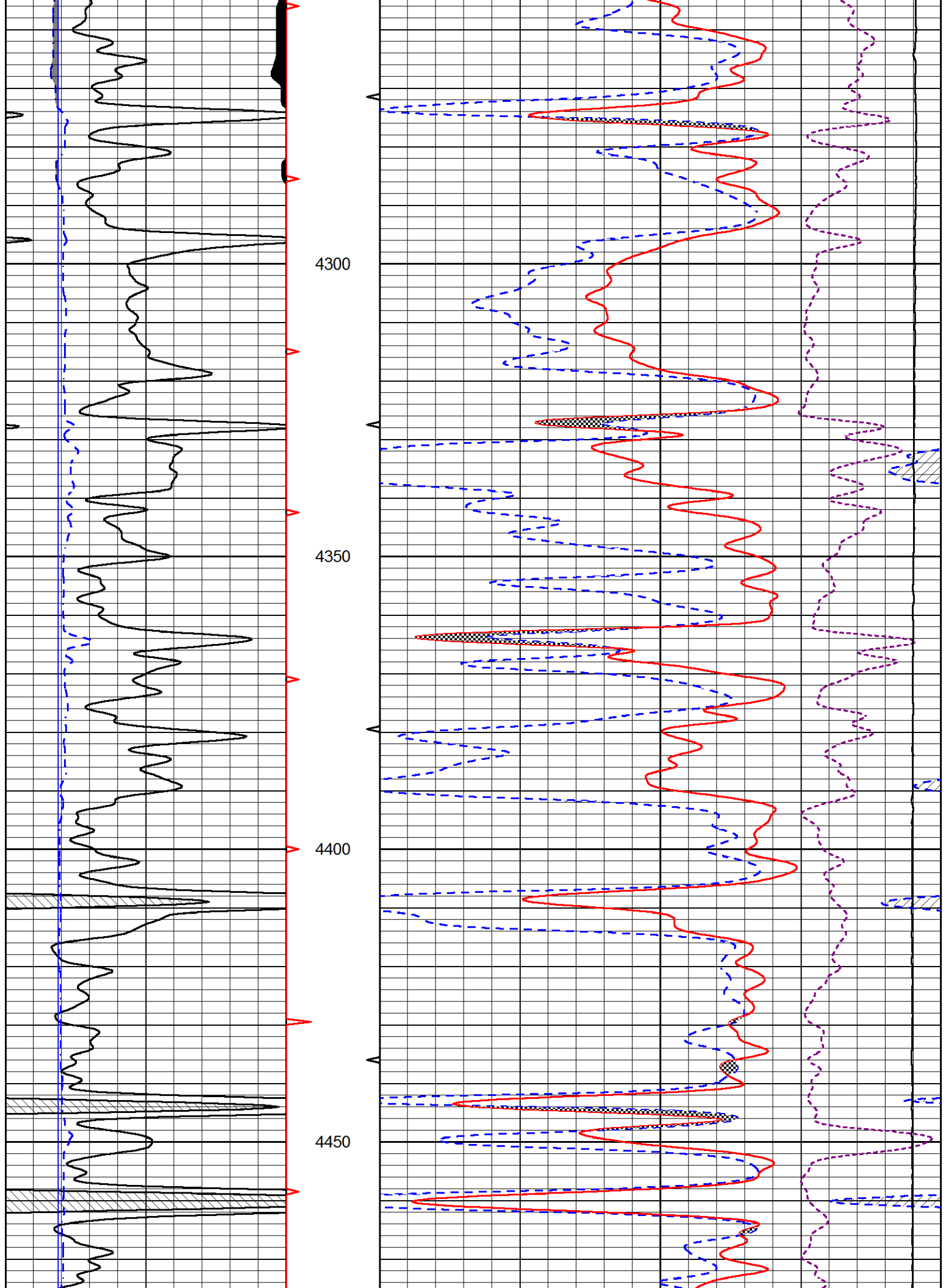
30	CNLS (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0

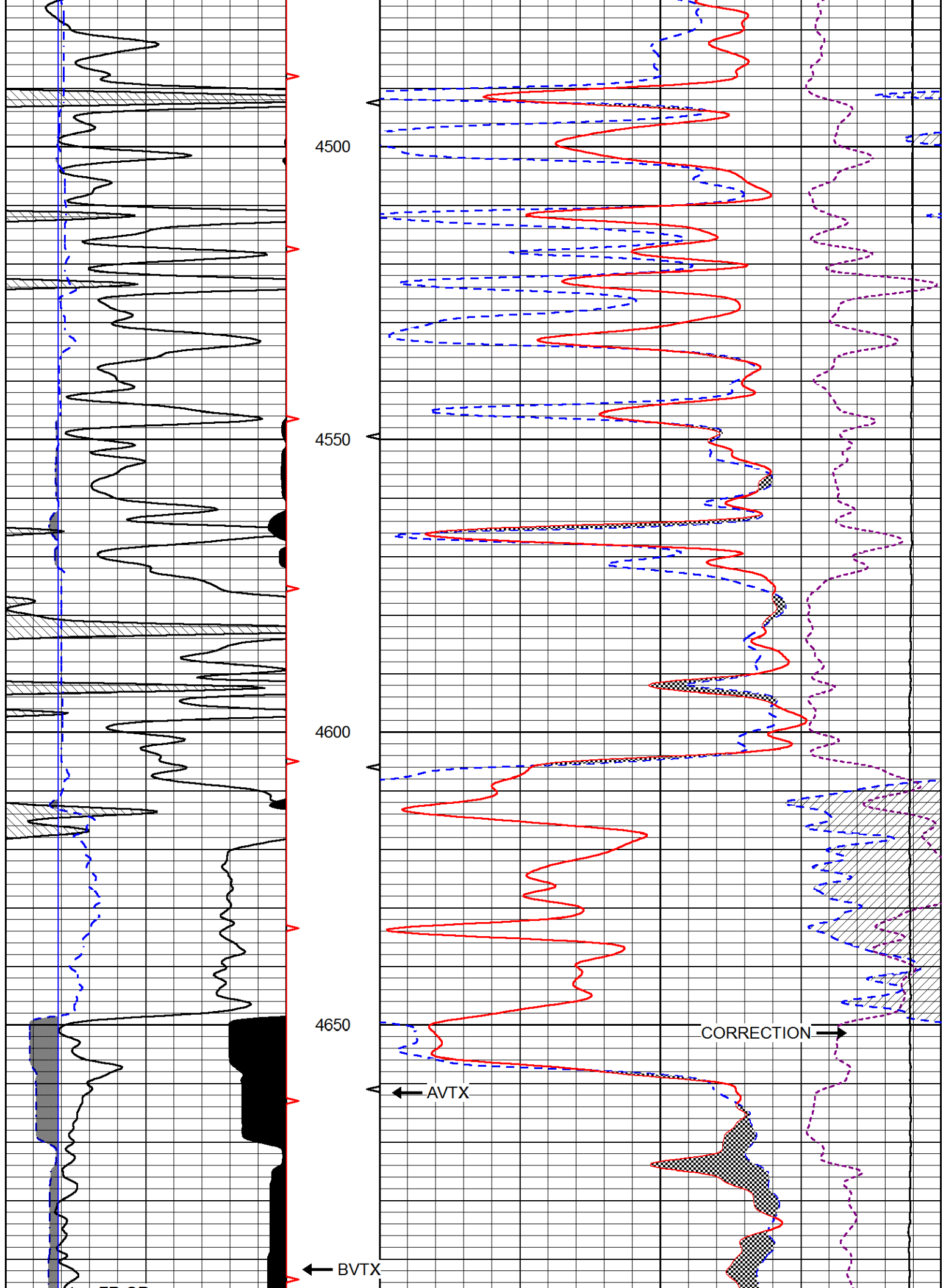
-0.25	CORRECTION (g/cc)	0.25
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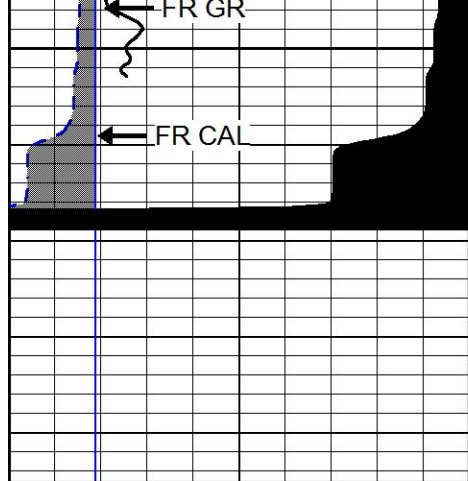






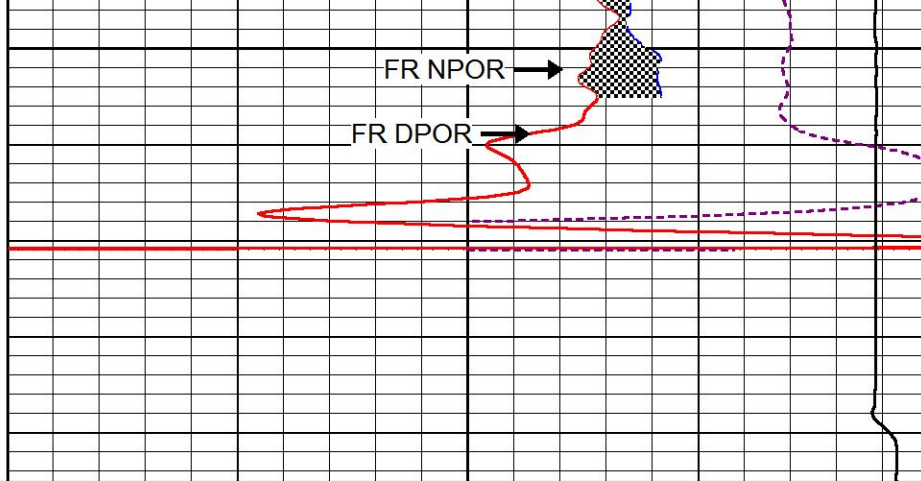






4700

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16



30	CNLS (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0

-0.25 CORRECTION (g/cc) 0.25



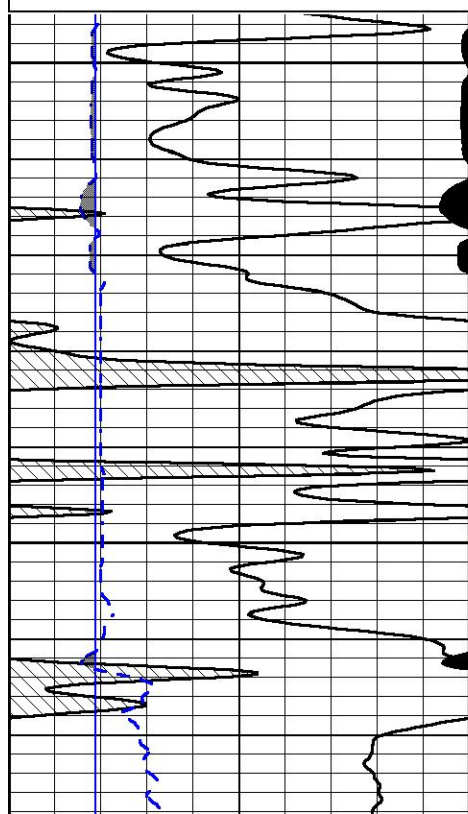
REPEAT SECTION

Database File concorde_mcdaniel_1_14.db
 Dataset Pathname stackml/pass2.1
 Presentation Format cndlspec
 Dataset Creation Fri Jan 12 19:00:29 2018
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	dcal (in)	16
6	BIT SIZE (in)	16

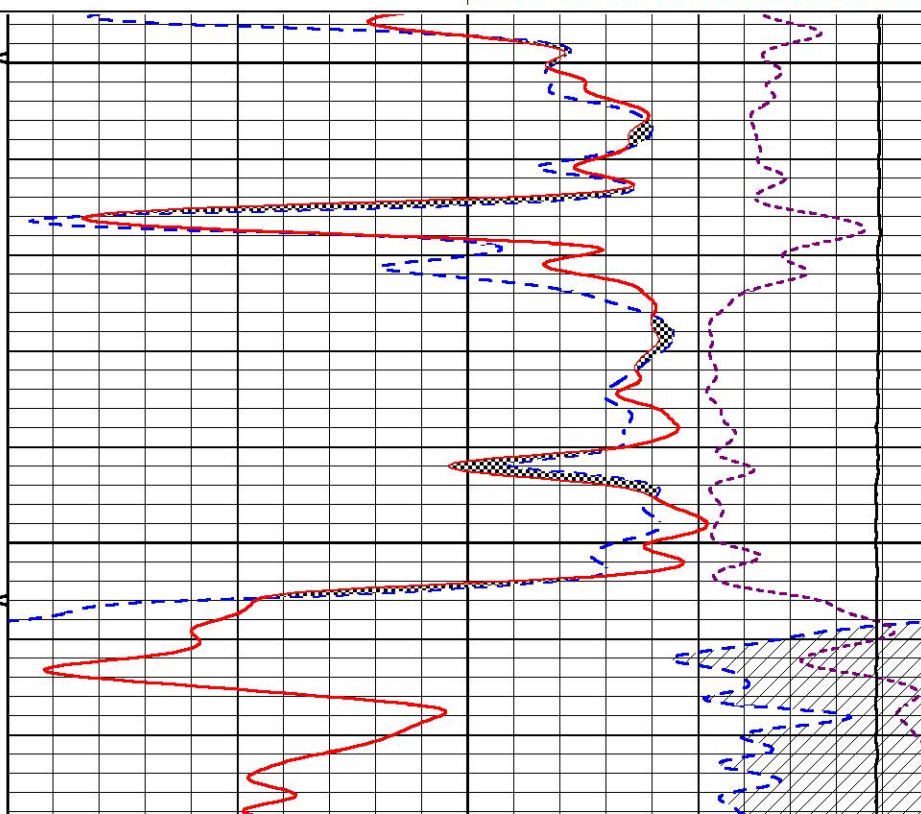
30	CNLS (pu)	-10
30	COMPENSATED DENSITY (2.71 ma) (pu)	-10
15000	LINE TENSION (lb)	0

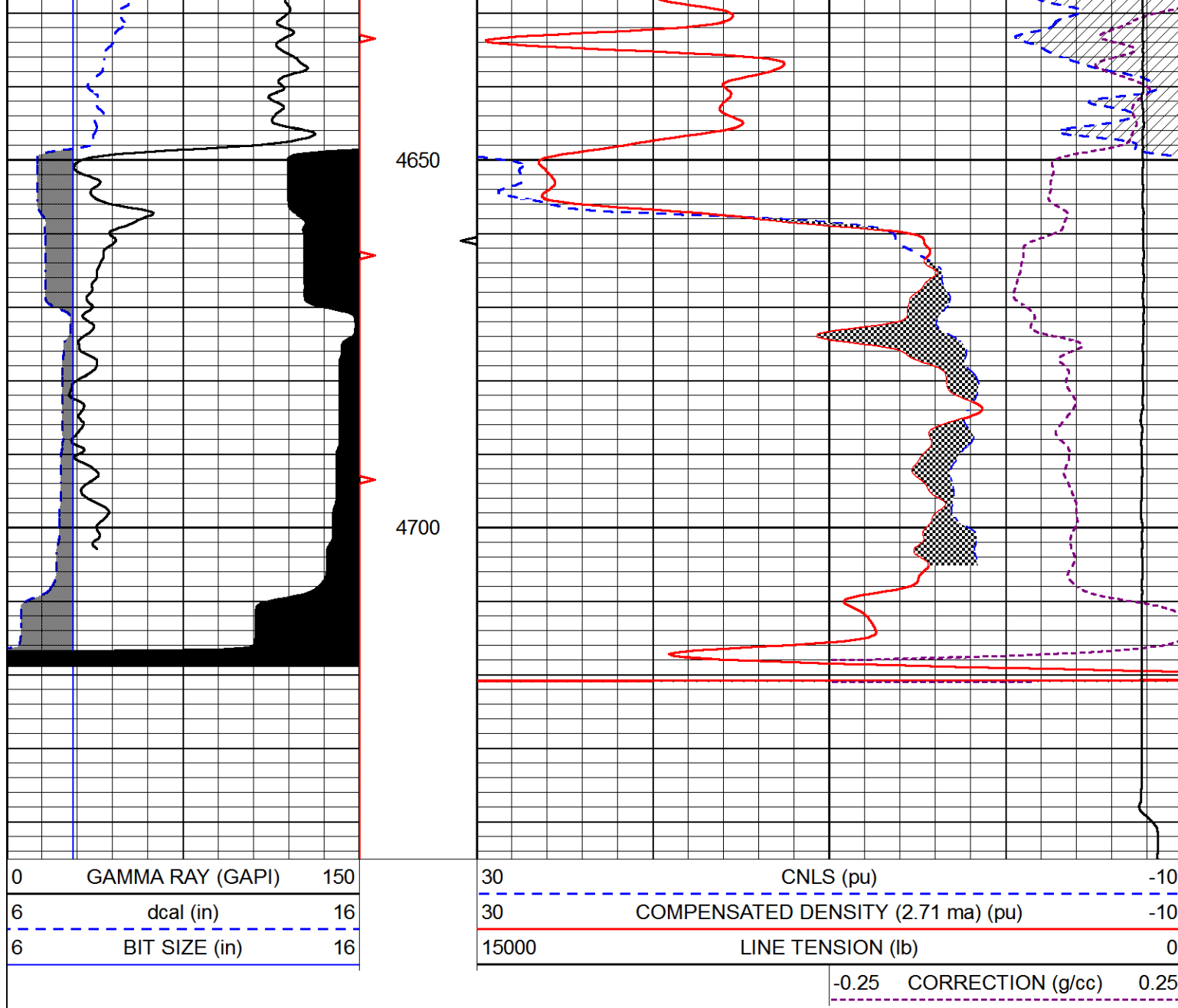
-0.25 CORRECTION (g/cc) 0.25



4550

4600





Calibration Report

Database File concorde_mcdaniel_1_14.db
 Dataset Pathname stackml/pass3.1
 Dataset Creation Fri Jan 12 19:00:12 2018

Dual Induction Calibration Report

Serial-Model:
 Calibration Performed:

PSI 978-M&W
 Wed Dec 13 12:45:09 2017

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	178.615	710.235	0.000	255.800	mmho/m	0.570	-36.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.420	-35.000

Microlog Calibration Report

Serial-Model:
 Performed:

PSI-02-PSI STKBL ML
 Fri Jun 23 01:25:19 2017

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0031	0.0043	0.0000	10.0000	Ohm-m	22000.0000	0.0000
Inverse	0.0000	0.0013	0.0000	10.0000	Ohm-m	26000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1560	-131.3000

Compensated Density Calibration Report

Serial-Model: 168-986-M&W
 Source / Verifier: /
 Master Calibration Performed: Tue Apr 11 17:07:47 2017

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4691.86	4818.19	cps
Aluminum	2.685	g/cc	859.57	3020.22	cps
Spine Angle = 74.61			Density/Spine Ratio = 0.528		
	Size		Reading		
Small Ring	4.00	in	1.00		
Large Ring	14.00	in	1.20		

Compensated Neutron Calibration Report

Serial Number: tk10-MW
 Tool Model: M&W
 Calibration Performed: Wed Nov 16 11:21:36 2016

Detector	Readings		Target	Normalization	
Short Space	6240.00	cps	1000.00	cps	1.6025
Long Space	460.00	cps	1000.00	cps	1.9500

Gamma Ray Calibration Report

Serial Number: 89-M&W
 Tool Model: M&W
 Calibration Performed: Tue Apr 11 17:08:01 2017

 Calibrator Value: 1000.0 GAPI

 Background Reading: 0.0 cps
 Calibrator Reading: 6.2 cps

 Sensitivity: 0.5200 GAPI/cps



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